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OBSERVATIONS WITH A FOUR-INCH TELESCOPE OF THE RECENT MAXIMA OF THE VARIABLE STARS R AND S *SCORPII.*

By Miss Rose O'Halloran.

1896. May 5th. R *Scorpii* is discernible as a yellow star of about tenth magnitude.

May 31st. It has been observed on several occasions since May 5th, but no increase of brightness was detected at any time. S *Scorpii* is not visible.

June 2d. This is the date of the predicted maximum of R, but there is little increase in the last month. S is just discernible.

June 5th. S is nearly as bright as R.

June 6th. They are of equal brightness.

June 8th. R compared with an adjacent star seems to have declined slightly.

June 9th. S seems the brighter of the two now. This is the date of its predicted maximum.

June 11th. R has declined further.

June 15th. R is scarcely visible.

June 18th. R is invisible in the moonlight. S has not decreased.

June 19th. S is still visible.

June 20th. It is faintly visible in the moonlight.

June 28th. After several nights of clouds and moonlight S is seen to have lost little if any of its faint lustre. R is invisible.

July 1st. S is not noticeably changed.

July 2d. It is still visible.

July 9th. It is barely discernible through clouds.

July 10th. It has decreased in light.

July 11th and 12th. It was barely discernible, and when looked for after a few cloudy nights it had sunk to invisibility. Its period is given as 176 days, and that of R, about 223 days. They are alike in tint and their visible range of variation was about from tenth to eleventh magnitude.

San Francisco, August, 1896.